

ENSIGN

Directional

Well Name: Bethyl GW30-16

Surface Location: Bethyl GW30-16 Sec.30-T8N-R63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

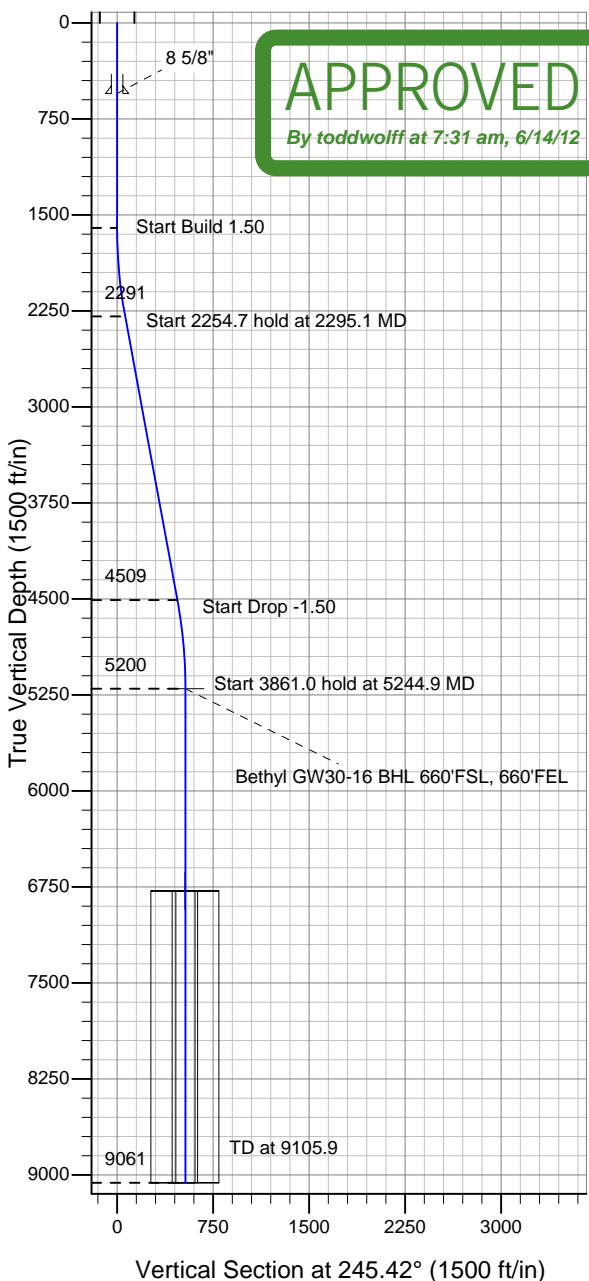
Ground Elevation: 4938.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1472845.18	3286174.34	40.626790	-104.469010	

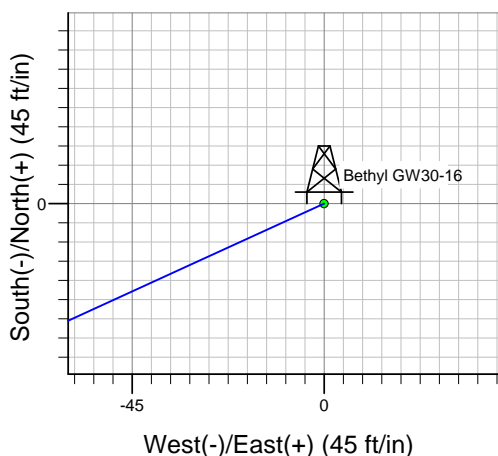
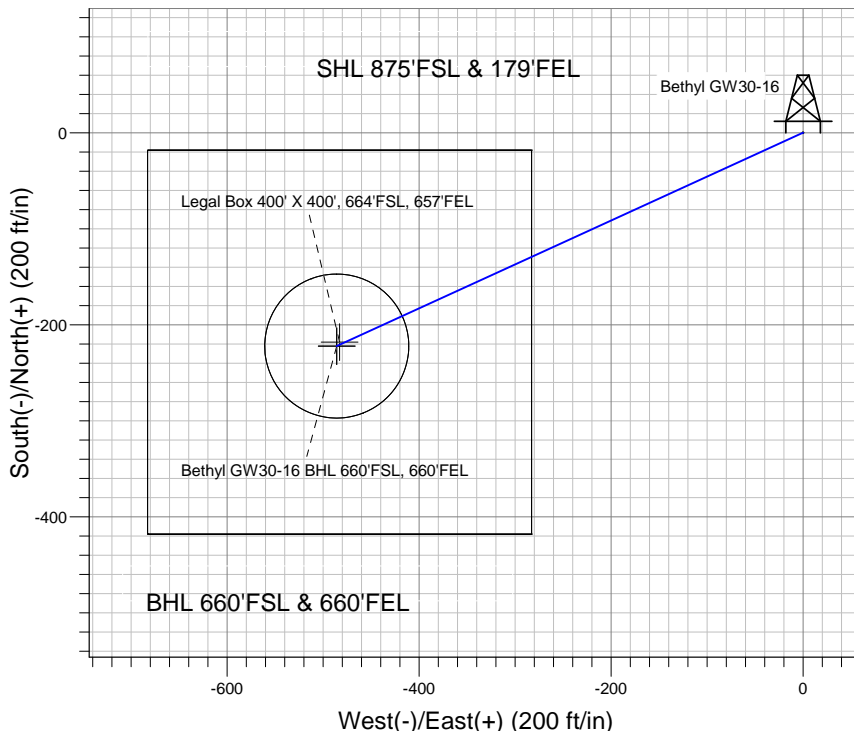
Original Well Elev WELL @ 4951.0ft (Original Well Elev)

APPROVED

By toddwolff at 7:31 am, 6/14/12



NOBLE ENERGY INC WELD COUNTY CO



Bethyl GW30-16
Bethyl GW30-16
Noble Bethyl GW30-16 Plan #1 (6-8-12)
9:35, June 12 2012



Azimuths to True North
Magnetic North: 8.59°

Magnetic Field
Strength: 53176.5snT
Dip Angle: 67.25°
Date: 6/8/2012
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Bethyl GW30-16 BHL 660'FSL, 660'FEL	5200.0	-222.2	-485.8	40.626180	-104.470760	Point
Legal Box 400' X 400', 664'FSL, 657'FEL	6781.0	-218.2	-482.8	40.626191	-104.470749	Rectangle (Sides: L400.0 W400.0)
Target Circle 660'FSL, 660'FEL	6781.0	-222.2	-485.8	40.626180	-104.470760	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
3	2295.1	10.43	245.42	2291.3	-26.2	-57.4	1.50	245.42	63.1	
4	4549.8	10.43	245.42	4508.7	-196.0	-428.4	0.00	0.00	471.1	
5	5244.9	0.00	0.00	5200.0	-222.2	-485.8	1.50	180.00	534.2	Bethyl GW30-16 BHL 660'FSL, 660'FEL
6	9105.9	0.00	0.00	9061.0	-222.2	-485.8	0.00	0.00	534.2	